Maria J M Gomes

List of Publications by Year
in descending order

81	1,223	430442	433756
papers	citations	18 h-index	31 g-index

81	81	81	1546
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HfO₂â€“Al₂O₃ Dielectric Layer for a Performing Metalâ€“Ferroelectricâ€“Insulatorâ€“Semiconductor Structure with a Ferroelectric 0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃ Thin Film. ACS Applied Electronic Materials, 2020, 2, 2780-2787.	2.0	5
2	Bariumâ€Doped Zinc Oxide Thin Films as Highly Efficient and Reusable Photocatalysts. ChemistrySelect, 2020, 5, 2824-2834.	0.7	13
3	Highly sensitive thermoelectric touch sensor based on p-type SnO _x thin film. Nanotechnology, 2019, 30, 435502.	1.3	17
4	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O3â€“0.4(Ba0.7Ca0.3)TiO3 ceramics through the incorporation of paraelectric SrTiO3. Journal of Materials Science: Materials in Electronics, 2019, 30, 19374-19382.	1.1	18
5	Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO₃thin films. Materials Research Express, 2019, 6, 066421.	0.8	20
6	Highâ€Performance Ferroelectricâ€“Dielectric Multilayered Thin Films for Energy Storage Capacitors. Advanced Functional Materials, 2019, 29, 1807196.	7.8	78
7	Hysteretic Characteristics of Pulsed Laser Deposited 0.5Ba(Zr_{0.2}Ti_{0.8})O₃â€“0.5(Ba_{0.7}Ca_{0.3})TiO₃/ZnO Bilayers. ACS Applied Materials & Interfaces, 2018, 10, 15240-15249.	8.3	17
8	Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser Deposited Silver Nanoparticles. Plasmonics, 2018, 13, 1235-1241.	1.8	13
9	Impact of the ferroelectric layer thickness on the resistive switching characteristics of ferroelectric/dielectric structures. Applied Physics Letters, 2018, 113, .	1.5	4
10	Ferroelectric switching dynamics in 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 thin films. Applied Physics Letters, 2018, 113, 082903.	1.5	11
11	Oxygen partial pressure induced effects on the microstructure and the luminescence properties of pulsed laser deposited TiO2 thin films. AIP Advances, 2017, 7, .	0.6	18
12	Enhanced resistive switching characteristics in Pt/BaTiO3/ITO structures through insertion of HfO2:Al2O3 (HAO) dielectric thin layer. Scientific Reports, 2017, 7, 46350.	1.6	30
13	SiGe layer thickness effect on the structural and optical properties of well-organized SiGe/SiO2multilayers. Nanotechnology, 2017, 28, 345701.	1.3	5
14	Optical and electrical properties of sol-gel spin coated titanium dioxide thin films. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012021.	0.3	1
15	Light-controlled resistive switching in laser-assisted annealed Ba_{0.8} Sr_{0.2} TiO₃ thin films. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1082-1087.	0.8	10
16	Influence of substrate temperature on the properties of pulsed laser deposited silver nanoparticle thin films and their application in SERS detection of bovine serum albumin. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	13
17	Synthesis, Structural and Luminescence Studies of Pyrochlore Phase Free TiO₂:Dy³⁺ Produced by Solidâ€state Reaction Method. International Journal of Applied Ceramic Technology, 2016, 13, 1139-1148.	1.1	1
18	Resistive switching in ferroelectric lead-free 0.5Ba (Zr_{0.2}Ti_{0.8})O₃â€“0.5(Ba_{0.7}Ca_{0.3})TiO₃thin films. Journal Physics D: Applied Physics, 2016, 49, 335301.	1.3	18

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19	Enhanced resistive switching and multilevel behavior in bilayered HfAlO/HfAlOx structures for non-volatile memory applications. Applied Physics Letters, 2015, 107, 242105.	1.5	15
20	Ferroelectric phase transitions studies in 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 ceramics. Journal of Electroceramics, 2015, 35, 135-140.	0.8	31
21	Surface Plasmon Resonance-Coupled Photoluminescence and Resistive Switching Behavior of Pulsed Laser-Deposited Ag:SiC Nanocermet Thin Films. Plasmonics, 2015, 10, 1211-1217.	1.8	9
22	Effect of bi-layer ratio in ZnO/Al2O3 multilayers on microstructure and functional properties of ZnO nanocrystals embedded in Al2O3 matrix. Applied Physics A: Materials Science and Processing, 2014, 115, 283-289.	1.1	9
23	Optical and electrical behavior of organic/inorganic hybrid with embedded gold nanoparticles. Journal of Sol-Gel Science and Technology, 2014, 69, 52-60.	1.1	0
24	Ba0.8Sr0.2TiO3 films crystallized on glass and platinized substrates by laser-assisted annealing at room temperature. Applied Physics A: Materials Science and Processing, 2014, 116, 1271-1280.	1.1	3
25	Synthesis and characterization of organicâ€“inorganic hybrid materials prepared by solâ€“gel and containing CdS nanoparticles prepared by a colloidal method using poly(N-vinyl-2-pyrrolidone). Journal of Sol-Gel Science and Technology, 2014, 71, 69-78.	1.1	7
26	Tuning the surface plasmon resonance and surface-enhanced Raman scattering of pulsed laser deposited silver nanoparticle films by ambience and deposition temperature. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.0	18
27	Charge storage behavior of nanostructures based on SiGe nanocrystals embedded in Al2O3 matrix. European Physical Journal B, 2013, 86, 1.	0.6	5
28	A shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2013, 110, 585-590.	1.1	7
29	Influence of RF-sputtering power on formation of vertically stacked Si_{1âˆ’x}Ge_xnanocrystals between ultra-thin amorphous Al₂O₃layers: structural and photoluminescence properties. Journal Physics D: Applied Physics, 2013, 46, 385301.	1.3	1
30	Effects of oxygen partial pressure on the ferroelectric properties of pulsed laser deposited Ba0.8Sr0.2TiO3 thin films. Applied Physics A: Materials Science and Processing, 2013, 113, 817-824.	1.1	9
31	Influence of laser repetition rate on ferroelectric properties of pulsed laser deposited BaTiO3 films on platinized silicon substrate. Applied Physics A: Materials Science and Processing, 2013, 113, 379-384.	1.1	12
32	Ferroelectric properties of pulsed laser deposited PZT (92/8) thin films. Journal of Materials Science: Materials in Electronics, 2013, 24, 5097-5101.	1.1	8
33	Strain induced enhanced ferromagnetic behavior in inhomogeneous low doped La0.95Sr0.05MnO3+Î´. Applied Physics Letters, 2013, 102, .	1.5	4
34	Charge trapping properties and retention time in amorphous SiGe/SiO2 nanolayers. Journal Physics D: Applied Physics, 2013, 46, 095306.	1.3	9
35	Semiconductor layer thickness impact on optical and resistive switching behavior of pulsed laser deposited BaTiO3/ZnO heterostructures. Applied Physics Letters, 2013, 102, .	1.5	43
36	Tuning the properties of Ge-quantum dots superlattices in amorphous silica matrix through deposition conditions. Journal of Applied Physics, 2012, 111, 074316.	1.1	4

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37	Enhanced ferromagnetism and glassy state in phase separated La0.95Sr0.05MnO3â€‰+â€‰Î´. Journal of Applied Physics, 2012, 112, 103907.	1.1	6
38	Influence of annealing conditions on the formation of regular lattices of voids and Ge quantum dots in an amorphous alumina matrix. Nanotechnology, 2012, 23, 405605.	1.3	8
39	Effect of Pt bottom electrode texture selection on the tetragonality and physical properties of Ba0.8Sr0.2TiO3 thin films produced by pulsed laser deposition. Journal of Applied Physics, 2012, 112, .	1.1	23
40	Structural and electrical studies of ultrathin layers with Si0.7Ge0.3 nanocrystals confined in a SiGe/SiO2 superlattice. Journal of Applied Physics, 2012, 111, 104323.	1.1	10
41	Development of new high transparent hybrid organicâ€“inorganic monoliths with surface engraved diffraction pattern. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 492-499.	2.4	22
42	Carrier storage in Ge nanoparticles produced by pulsed laser deposition. Physica Status Solidi - Rapid Research Letters, 2012, 6, 223-225.	1.2	11
43	Ge nanocrystals with highly uniform size distribution deposited on alumina at room temperature by pulsed laser deposition: structural, morphological, and charge trapping properties. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	3
44	Ge nanocrystals in alumina matrix: A structural study. Journal of Physics: Conference Series, 2010, 209, 012060.	0.3	3
45	Growth and characterization of Mnâ€‰doped ZnO/TiO₂ multilayer nanostructures grown by pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2724-2726.	0.8	0
46	Formation of void lattice after annealing of Ge quantum dot lattice in alumina matrix. Applied Physics Letters, 2010, 97, .	1.5	13
47	Mn-doped ZnO nanocrystals embedded in Al₂O₃: structural and electrical properties. Nanotechnology, 2010, 21, 505705.	1.3	11
48	THERMAL STABILITY OF ENERGY-EMISSION FROM CdTe NANOCRYSTALS EMBEDDED IN SiO₂ THIN FILMS. Modern Physics Letters B, 2010, 24, 2837-2843.	1.0	0
49	Investigation of Surface Plasmon Resonance in Gold/Alumina Composite Films Prepared by rf-Sputtering. Journal of Nanoscience and Nanotechnology, 2010, 10, 2858-2862.	0.9	0
50	Self-assembling of Ge quantum dots in an alumina matrix. Physical Review B, 2010, 82, .	1.1	26
51	Size and spatial homogeneity of SiGe quantum dots in amorphous silica matrix. Journal of Applied Physics, 2009, 106, 084319.	1.1	11
52	Physical and Optical Characterization of Er³⁺ Doped Lead-Zinc-Borate Glass. Journal of Nanoscience and Nanotechnology, 2009, 9, 3555-3561.	0.9	6
53	Absorption and Emission Analysis of RE³⁺(Sm³⁺ and) Tj ETQq1 1 0.784314 rgBT /O Nanotechnology, 2009, 9, 3672-3677.	0.9	67
54	Fundamental absorption edge and nearâ€‰absorption edge properties of PLZT thin films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2576-2580.	0.8	0

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55	Electrical Conduction of CdSe Nanocrystals Embedded in Silicon Oxide Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 3418-3423.	0.9	0
56	Confinement effect in CdTe nanocrystals embedded in silica thin films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1500-1504.	0.8	4
57	Investigation of photoelectrical properties of CdSe nanocrystals embedded in a SiO2matrix. Semiconductor Science and Technology, 2008, 23, 095025.	1.0	8
58	Dielectric nonlinearity in a compositionally graded lead zirconate titanate structure. Journal of Applied Physics, 2008, 104, .	1.1	4
59	Structural and Optical Properties of Ge Nanocrystals Embedded in Al2O3. Journal of Nanoscience and Nanotechnology, 2008, 8, 572-576.	0.9	8
60	Impedance spectroscopy study of a compositionally graded lead zirconate titanate structure. Journal of Applied Physics, 2007, 102, 114109.	1.1	21
61	Band Gap and Band Tailing Behaviour of PLZT Films. Ferroelectrics, 2007, 360, 31-36.	0.3	1
62	Highly transparent sol-gel derived ureasilicate monoliths exhibiting long-term optical stability. Journal of Sol-Gel Science and Technology, 2007, 41, 223-229.	1.1	22
63	Electrical spin injection in light emitting Schottky diodes based on InGaAs /GaAs QW heterostructures. AIP Conference Proceedings, 2007, , .	0.3	0
64	Influence of matrix defects on the photoluminescence of InAs self-assembled quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1348-1352.	0.8	6
65	Electrical spin injection in forward biased Schottky diodes based on InGaAsâ€“GaAs quantum well heterostructures. Applied Physics Letters, 2006, 89, 181118.	1.5	19
66	Metal-ferroelectric-metal structures with Schottky contacts. II. Analysis of the experimental current-voltage and capacitance-voltage characteristics of Pb(Zr,Ti)O3 thin films. Journal of Applied Physics, 2005, 98, 124104.	1.1	141
67	Suppression of the photoluminescence quenching effect in self-assembled InAsâ•GaAs quantum dots. Applied Physics Letters, 2005, 87, 053109.	1.5	10
68	1.3â€“1.5 Âµm electroluminescence from Schottky diodes made on Au-InAs/GaAs quantum-size heterostructures. Semiconductor Science and Technology, 2004, 19, S469-S471.	1.0	12
69	Growth and Properties of Pb(Zr0.92Ti0.08)O3 Thin Films. Integrated Ferroelectrics, 2004, 62, 83-87.	0.3	1
70	Control of efficiency of photon energy up-conversion in CdSe/ZnS quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 859-863.	0.2	28
71	Simple model of polarization offset of graded ferroelectric structures. Journal of Applied Physics, 2003, 93, 9961-9967.	1.1	35
72	Competition between ferroelectric and semiconductor properties in Pb(Zr0.65Ti0.35)O3 thin films deposited by solâ€“gel. Journal of Applied Physics, 2003, 93, 4776-4783.	1.1	100

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73	Electric Properties of PZTN (65/35/x) Thin Films Deposited by Sol-Gel. Ferroelectrics, 2003, 293, 135-143.	0.3	0
74	Optical Properties of PZT 65/35 Thin Films Deposited by Sol-Gel. Ferroelectrics, 2002, 268, 187-192.	0.3	14
75	Structural and Piezoelectric Properties of Rare Earth Doped PbTiO 3 Ceramics. Ferroelectrics, 2002, 273, 267-272.	0.3	4
76	Probing the Exciton Density of States in Semiconductor Nanocrystals Using Integrated Photoluminescence Spectroscopy. Monatshefte FÃ¼r Chemie, 2002, 133, 909-918.	0.9	10
77	Impact of disorder on optical phonons confined in CdS nano-crystallites embedded in a SiO2matrix. Journal of Physics Condensed Matter, 2001, 13, 3491-3509.	0.7	45
78	The effects of short-range order and natural microinhomogeneities on the FIR optical properties of CdxHg1â^'xTe. Journal of Electronic Materials, 1999, 28, 654-661.	1.0	3
79	Coherent Signal Generation in CuCl by Lightâ€Induced Grating and Induced Biexciton Decay. Physica Status Solidi (B): Basic Research, 1990, 158, 391-396.	0.7	8
80	Timeâ€Resolved Fourâ€Wave Mixing Experiments in CuCl. Physica Status Solidi (B): Basic Research, 1990, 159, 101-106.	0.7	4
81	Time Evolution of the Refractive Index of CuCl under Picosecond Pulsed Excitation. Physica Status Solidi (B): Basic Research, 1989, 151, 747-757.	0.7	10